Do-it-yourself service precautions

If you perform maintenance yourself, be sure to follow the correct procedures as given in these sections.

ltems		Parts and tools
Battery condition	(→P. 265)	 Warm water Baking soda Grease Conventional wrench (for the positive terminal clamp bolt)
Brake fluid level	(→P. 262)	 FMVSS No.116 DOT 3 or SAE J1703 brake fluid Rag or paper towel Funnel (used only for adding brake fluid)
Condenser	(→P. 261)	_
Engine coolant level	(→P. 260)	 "Toyota Super Long Life Coolant" or similar high-quality ethylene gly-col-based non-silicate, non-amine, non-nitrite and non-borate coolant with long-life hybrid organic acid technology. "Toyota Super Long Life Coolant" is pre-mixed with 50% coolant and 50% deionized water. Funnel (used only for adding engine coolant)
Engine oil level	(→P. 257)	 "Mobil 1 5W-50" Funnel (used only for adding engine oil)
Fuses	(→P. 287)	Fuse with same amperage rating as original

ltems		Parts and tools
Tire inflation pressure	(→P. 277)	Tire pressure gauge Compressed air source
Washer fluid	(→P. 264)	 Water or washer fluid containing antifreeze (for winter use) Funnel (used only for adding water or washer fluid)

The engine compartment contains many mechanisms and fluids that may move suddenly, become hot, or become electrically energized. To avoid death or serious injury, observe the following precautions:

n When working on the engine compartment

- 1 Keep hands, clothing, and tools away from the moving fan and engine drive belt.
- 1 Be careful not to touch the engine, exhaust manifold, etc. right after driving as they may be hot. Oil and other fluids may also be hot.
- 1 Do not leave anything that may burn easily, such as paper or rags, in the engine compartment.
- 1 Do not smoke, cause sparks or expose an open flame to fuel. Fuel fumes are flammable.

n When working near the electric cooling fan

Be sure the ignition switch is in the "LOCK" position.

With the ignition on, the electric cooling fan may automatically start to run if the air conditioning is on. $(\rightarrow P. 261)$

n Safety glasses

Wear safety glasses to prevent flying or falling material, fluid spray, etc. from getting in the eves.



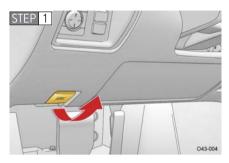
NOTICE

n If you remove the air cleaner filters

Driving with the air cleaner filters removed may cause excessive engine wear due to dirt in the air. Also a backfire could cause a fire in the engine compartment.

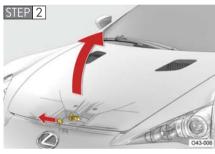
Hood

Release the lock from the inside of the vehicle to open the hood.

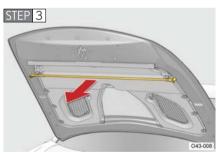


Pull the hood release lever.

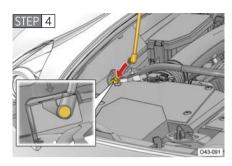
The hood will pop up slightly.



Press the auxiliary catch lever to the left and lift the hood.

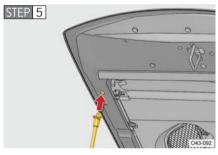


Take out the supporting rod.



Insert the supporting rod into the slot positioned on the side of the engine compartment.

Be sure that the supporting rod is fully inserted into the slot.



Insert the supporting rod into the slot on the hood.

A CAUTION

${\rm n}\ {\sf Pre-driving\,check}$

Check that the hood is fully closed and locked.

If the hood is not locked properly it may open while the vehicle is in motion and cause an accident, which may result in death or serious injury.

n After inserting the supporting rod

Check to make sure that the supporting rod is properly inserted. Failure to do so may result in the hood closing by itself and possibly causing an injury.

n Preventing personal injury



- 1 Do not touch the hood grille or components in the engine compartment immediately after the engine has been driven as doing so may result in serious injuries such as hurns
- 1 Turn the ignition switch to the "LOCK" position and wait for a while before opening the hood so as to avoid getting caught in the moving parts of the engine. Failure to do so may result in serious injury or death.

n When closing the hood



Be careful not to get hands or other body parts caught when closing the hood as doing so may result in serious injury.



NOTICE

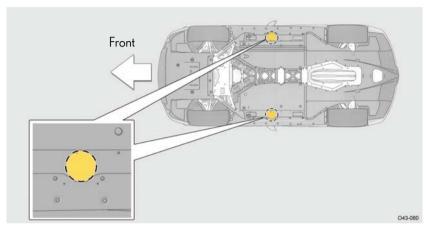
n When closing the hood

- 1 Do not apply excessive weight or force when closing the hood as doing so may result in damage.
- 1 Be sure that the supporting rod is firmly secured with the clip positioned on the inside of the hood. Closing the hood without securing the supporting rod to the clip may result in damage to the hood, supporting rod or components in the engine compartment.

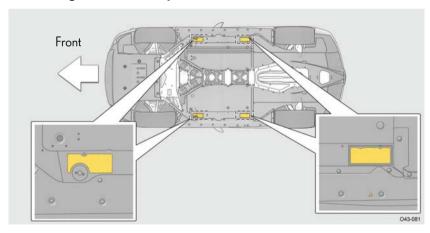
Positioning a floor jack

When raising your vehicle with a floor jack, position the jack correctly. Improper placement may damage your vehicle or cause injury.

Positioning a floor jack



Positioning an automotive jack stand



CAUTION

n When raising your vehicle

Make sure to observe the following precautions to reduce the possibility of death or serious iniury:

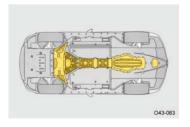


1 Lift up the vehicle using a floor jack such as the one shown in the illustration.

Minimum lifting saddle height (when lowered).

3.1 in. (80 mm) or less

- 1 When using a floor jack, follow the instructions of the manual provided with the iack.
- 1 Do not put any part of your body underneath the vehicle when it is supported only by the floor jack.
- 1 Always use floor jack and/or automotive jack stands on a solid, flat, level surface.
- 1 Do not start the engine while the vehicle is supported by the floor jack.
- 1 Stop the vehicle on level, firm ground, firmly set the parking brake and select Reverse.
- 1 Make sure to set the floor jack or automotive jack stand properly at the jack point. Raising the vehicle with an improperly positioned floor jack or automotive jack stand will damage the vehicle and may cause the vehicle to fall off the floor jack or automotive jack stand.
- 1. Do not raise the vehicle while someone is in the vehicle.
- 1 When raising the vehicle, do not place any objects on top of or underneath the floor jack.



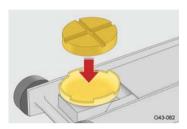
- 1. Do not touch the area shown in the illustra-
 - Touching this area immediately after the vehicle has been driven may result in burns.

⚠ NOTICE

${\rm n}\ \mbox{When using a floor jack}$

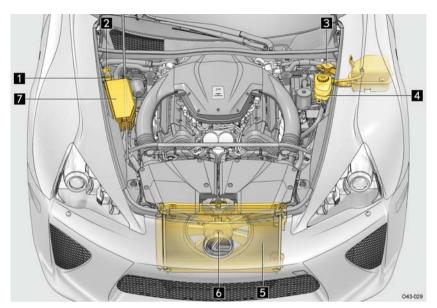
Observe the following precautions to avoid damage to the vehicle's underbody:

1 Make sure to position the floor jack correctly.



1 If the saddle of the floor jack protrudes outwards when the jack is in use, attach a rubber pad or another appropriate spacer.

Engine compartment



■ Engine oil filler cap $(\rightarrow P. 257)$ **■** Brake fluid reservoir $(\rightarrow P. 262)$ 2 Engine oil level dipstick $(\rightarrow P. 257)$ **5** Condenser $(\to P. 261)$ 3 Engine coolant reservoir 6 Electric cooling fan (→P. 260) **7** Fuse box

 $(\rightarrow P.287)$

256

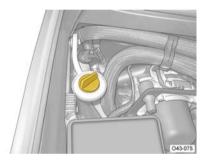
Engine oil

Do not use the engine oil level dipstick in the engine compartment when checking or adding engine oil, as it is only designed to be used for oil replacement performed by your Lexus dealer. Make sure to use the meter for checking and adding engine oil.

n Checking the engine oil

Check the oil level using the "Oil Level" display on the meter. $(\rightarrow P. 132)$

n Adding engine oil



If the oil level is low, add engine oil.

If unsure of how much oil to add, contact your Lexus dealer.

Prepare the following item and brand of oil:

Oil brand	"Mobil 1 5W-50"
Oil quantity* (MIN→MAX)	Approximately 2.1 qt. (2.0L, 1.8 lmp. qt.)
ltem	Clean funnel

^{*:} Measured using the "Oil Level" display on the meter, between the minimum and maximum markings

STEP 1 Check the oil level using the "Oil Level" display on the meter. $(\rightarrow P. 132)$

STEP 2 Stop the engine.

STEP 3 Remove the oil filler cap by turning it counterclockwise.

- STEP 4 Add oil based on the oil level shown on the meter.
 - Do not add more than $0.5\,\mathrm{qt.}$ ($0.5\,\mathrm{L}$, $0.4\,\mathrm{Imp.}\,\mathrm{qt.}$) at a time regardless of the oil level reading.
- STEP 5 To check the oil level again, install the oil filler cap by turning it clockwise.
- STEP 6 Check the oil level using the "Oil Level" display and repeat the above procedure if more oil is required.

Even if the measurement result shows that the oil is below the maximum level, be careful not to add more oil than necessary.

STEP 7 Install the oil filler cap by turning it clockwise.

n Engine oil consumption

- 1 The amount of engine oil consumed depends on the oil viscosity, the quality of the oil and the way the vehicle is driven.
- 1 More oil is consumed under driving conditions such as high speeds and frequent acceleration and deceleration.
- 1 A new engine consumes more oil.
- 1 When judging the amount of oil consumption, keep in mind that the oil may have become diluted, making it difficult to judge the true level accurately.
- 1 Oil consumption: Max. 1.1 qt./600 miles (0.9 lmp. qt./600 miles, 1.0 L/1000 km)
- $1\,$ If your vehicle consumes more than 1.1 qt. (1.0 L, 0.9 lmp. qt.) every 600 miles (1000 km), contact your Lexus dealer.

${ m n}\,$ After the engine oil has been changed

The "Oil Maintenance" display on the meter needs resetting. Have the display reset at your Lexus dealer. $(\rightarrow P. 132)$

n Used engine oil

- 1 Used engine oil contains potentially harmful contaminants which may cause skin disorders such as inflammation or skin cancer, so care should be taken to avoid prolonged and repeated contact. To remove used engine oil from your skin, wash thoroughly with soap and water.
- 1 Dispose of used oil and filters only in a safe and acceptable manner. Do not dispose of used oil and filters in household trash, in sewers or onto the ground. Call your Lexus dealer, service station or auto parts store for information concerning recycling or disposal.
- 1 Do not leave used engine oil within the reach of children.



NOTICE

n To prevent serious engine damage

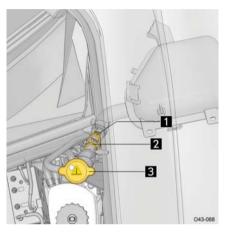
Check the oil level on a regular basis.

n When adding the engine oil

- 1 Be careful not to spill engine oil on the vehicle components.
- 1 Avoid overfilling, or the engine could be damaged.
- 1 Check the oil level using the "Oil Level" display on the meter every time you refill the vehicle.
- 1 Be sure the engine oil filler cap is properly tightened.

Engine coolant

The coolant level is satisfactory if it is between the "FULL" and "LOW" lines on the reservoir when the engine is cold.



"LOW"

If the level is on or below the "LOW" line, add coolant up to the "FULL" line.

- 2 "FULL"
- 3 Reservoir cap

n Coolant selection

Only use "Toyota Super Long Life Coolant" or a similar high quality ethylene glycol based non-silicate, non-amine, non-nitrite, and non-borate coolant with long-life hybrid organic acid technology.

"Toyota Super Long Life Coolant" is a mixture of 50% coolant and 50% deionized water. (Minimum temperature: -31°F [-35°C])

For more details about coolant, contact your Lexus dealer.

$\, n \,$ If the coolant level drops within a short time of replenishing

Visually check the hoses and engine coolant reservoir cap. If you cannot find a leak, have your Lexus dealer test the cap and check for leaks in the cooling system.

n When the engine is hot

Do not remove the engine coolant reservoir cap.

The cooling system may be under pressure and may spray hot coolant if the cap is removed, causing burns or other injuries.



NOTICE

n When adding engine coolant

Coolant is neither plain water nor straight antifreeze. The correct mixture of water and antifreeze must be used to provide proper lubrication, corrosion protection and cooling. Be sure to read the antifreeze or coolant label.

n If you spill coolant

Be sure to wash it off with water to prevent it from damaging parts or paint.

Condenser

Check the condenser and clear any foreign objects.

If it is extremely dirty or you are not sure of its condition, have your vehicle checked by your Lexus dealer.



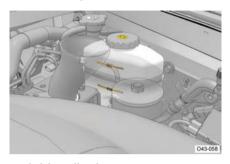
A CAUTION

n When the engine is hot

Do not touch the condenser, as it may be hot and cause burns.

Brake fluid

n Checking fluid level



The brake fluid level should be between the "MAX" and "MIN" lines on the tank

n Adding fluid

Make sure to check the fluid type and prepare the necessary item.

Fluid type	FMVSS No.116 DOT 3 or SAE J1703 brake fluid
ltem	Clean funnel

n Brake fluid can absorb moisture from the air

Excess moisture in the brake fluid can cause a dangerous loss of braking efficiency. Use only newly opened brake fluid.



A CAUTION

n When filling the reservoir

Take care as brake fluid can harm your hands and eyes and damage painted surfaces.

If fluid gets on your hands or in your eyes, flush the affected area with clean water immediately.

If you still experience discomfort, see a doctor.

№ NOTICE

${\rm n}\,$ If the fluid level is low or high

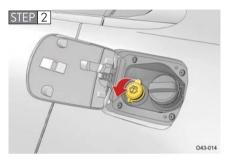
It is normal for the brake fluid level to go down slightly as the brake pads wear out or when the fluid level in the accumulator is high.

If the reservoir needs frequent refilling, there may be a serious problem.

Adding washer fluid

If any washer does not work or the warning message appears on the meter, the washer tank may be empty. Add washer fluid.

STEP 1 Open the fuel filler door. $(\rightarrow P. 49)$



Open the cap.

⚠ NOTICE

${ m n}\,$ Do not use any fluid other than washer fluid

Do not use soapy water or engine antifreeze instead of washer fluid. Doing so may cause streaking on the vehicle's painted surfaces.

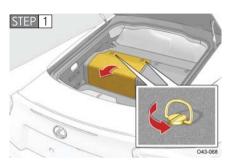
n Diluting washer fluid

Dilute washer fluid with water as necessary.

Refer to the freezing temperatures listed on the washer fluid container.

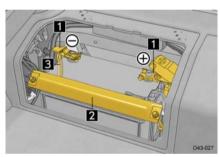
Battery

The battery is located on the left-hand side of the luggage compartment.



Open the rear hatch and remove the cover.

Make sure that the battery terminals are not corroded and that there are no loose connections, cracks or loose clamps.



- 1 Terminals
- 2 Hold-down clamp
- Ground cable

n Before recharging

When recharging, the battery produces hydrogen gas which is flammable and explosive. Therefore, observe the following precautions before recharging:

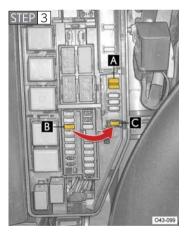
- 1 If recharging with the battery installed on the vehicle, be sure to disconnect the ground cable.
- 1 Make sure the power switch on the charger is off when connecting and disconnecting the charger cables to the battery.

n If the vehicle is not used for an extended period of time

Removing the specified fuse helps to suppress parasitic current (the draw on the battery when the vehicle is shut off).

STEP 1 Turn the ignition switch to the "LOCK" position.

STEP 2 Open the fuse box lid in the engine compartment. $(\rightarrow P. 287)$



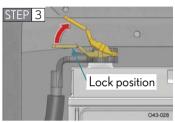
While referring to "Fuse layout and amperage ratings" (\rightarrow P. 290) or the back of the fuse box lid for the location, use the pull-out tool \blacktriangle to remove the "D/C CUT" fuse \blacksquare and put it into \blacksquare .

Make sure that the fuse is firmly inserted.

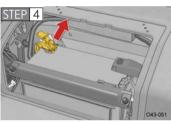
Before commencing driving again, make sure to return the fuse to its original position.

n Removing the negative (-) battery terminal

- Turn the ignition switch to the "LOCK" position and check that the gear indicator is not displayed. (→P. 269)
- STEP 2 Open the rear hatch and remove the cover.



Lift the lever.



Disconnect the terminal.

- 1 When reconnecting the terminal, make sure that the lever is lowered into the lock position.
- 1 Do not disconnect the terminal while the power seats, power windows or other electrical devices are being operated.
- 1 When the battery terminal is disconnected, the "Lap Timer" data and clock in the meter will be reset.

n When connecting the battery terminal

Lower the lever into the locked position and ensure that the terminal is securely fixed in place.

If the terminal is not securely fixed in place, it may come off while the vehicle is being driven. This may cause the engine and electronic components to stop functioning, resulting in an accident.

n Chemicals in the battery

A battery contains poisonous and corrosive sulfuric acid and may produce hydrogen gas which is flammable and explosive. To reduce the risk of death or serious injury, take the following precautions while working on or near the battery:

- 1 Do not cause sparks by touching the battery terminals with tools.
- 1 Do not smoke or light a match near the battery.
- 1 Avoid contact with eyes, skin and clothes.
- Never inhale or swallow electrolyte.
- 1 Wear protective safety glasses when working near the battery.
- 1 Keep children away from the battery.

n Where to safely charge the battery

Always charge the battery in an open area. Do not charge the battery in a garage or closed room where there is insufficient ventilation.

n How to recharge the battery

Only perform a slow charge (5 A or less). The battery may explode if charged at a quicker rate.

n Emergency measures regarding electrolyte

- 1 If electrolyte aets in your eyes Flush your eyes with clean water for at least 15 minutes and get immediate medical attention. If possible, continue to apply water with a sponge or cloth while traveling to the nearest medical facility.
- 1 If electrolyte gets on your skin Wash the affected area thoroughly. If you feel pain or burning, get medical attention immediately.
- 1 If electrolyte gets on your clothes It can soak through clothing on to your skin. Immediately take off the clothing and follow the procedure above if necessary.
- 1 If you accidentally swallow electrolyte Drink a large quantity of water or milk. Follow with milk of magnesia, beaten raw egg or vegetable oil. Get emergency medical attention immediately.

n When replacing the battery

Use a battery designed for the LFA. Failure to do so may cause gas (hydrogen) to enter the passenger compartment, causing a fire or explosion.

For replacement of the battery, contact your Lexus dealer.



NOTICE

n Before disconnecting the battery terminal

Turn the ignition switch to the "LOCK" position and check that the gear indicator turns off before disconnecting the battery terminal.

If the terminal is disconnected while the gear indicator is still displayed, the ASG (Automated Sequential Gearbox) computer may be negatively affected, possibly causing the engine not to start. If the terminal is accidentally disconnected while the indicator is on, contact your Lexus dealer.

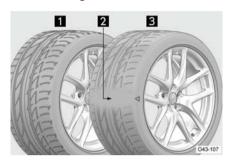
n When recharging the battery

Never recharge the battery while the engine is running. Also, be sure all accessories are turned off.

Tires

Replace tires when the treadwear indicators show.

n Checking tires



- New tread
- Treadwear indicator
- Worn tread

The location of treadwear indicators is shown by the "TWI" or " Δ " marks, etc., molded on the sidewall of each tire.

n The tire pressure warning system

Your vehicle is equipped with a tire pressure warning system that uses tire pressure warning valves and transmitters to detect low tire inflation pressure before serious problems arise. $(\rightarrow P. 315)$

Installing tire pressure warning valves and transmitters

When replacing tires or wheels, tire pressure warning valves and transmitters must also be installed.

When new tire pressure warning valves and transmitters are installed, new ID codes must be registered in the tire pressure warning computer and tire pressure warning system must be initialized. Have tire pressure warning valve and transmitter ID codes registered by your Lexus dealer. $(\rightarrow P. 272)$

Initializing the tire pressure warning system

The tire pressure warning system must be initialized when the tire inflation pressure is changed (such as when changing traveling speed).

When the tire pressure warning system is initialized, the current tire inflation pressure is set as the benchmark pressure.

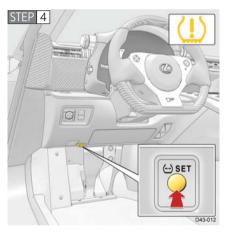
n How to initialize the tire pressure warning system

- Park the vehicle in safe place and turn the ignition switch off.

 Initialization cannot be performed while the vehicle is moving.
- STEP 2 Adjust the tire inflation pressure to the specified cold tire inflation pressure level. $(\rightarrow P. 366)$

Make sure to adjust the tire pressure to the specified cold tire inflation pressure level. The tire pressure warning system will operate based on this pressure level.

STEP 3 Turn the ignition switch to the "ON" position.



Press and hold the tire pressure warning reset switch until the tire pressure warning light flashes slowly 3 times.

STEP 5 Wait for a few minutes with the ignition switch in the "ON" position and then turn the ignition switch off.

Registering ID codes

The tire pressure warning valve and transmitter is equipped with a unique ID code. When replacing a tire pressure warning valve and transmitter, it is necessary to register the ID code. Have the ID code registered by your Lexus dealer.

n When to replace your vehicle's tires

Tires should be replaced if:

- 1 You have tire damage such as cuts, splits, cracks deep enough to expose the fabric or bulges indicating internal damage
- 1 A tire goes flat repeatedly or cannot be properly repaired due to the size or location of a cut or other damage

If you are not sure, consult with your Lexus dealer.

n Replacing tires and wheels

If the ID code of the tire pressure warning valve and transmitter is not registered, the tire pressure warning system will not work properly. After driving for about 20 minutes, the tire pressure warning light flashes for 1 minute to indicate a system malfunction.

n Tire life

Any tire over 6 years old must be checked by a qualified technician even if they have seldom or never been used or damage is not obvious.

n Routine tire inflation pressure checks

The tire pressure warning system does not replace routine tire inflation pressure checks. Make sure to check tire inflation pressure as part of your routine of daily vehicle checks.

n Tire rotation

It is not possible to rotate the tires, as each tire is designed only for its original position on the vehicle.

n Maximum load of tire

Check that the maximum load of the replacement tire is greater than 1/2 of the Gross Axle Weight Ratings (GAWR) of either the front axle or the rear axle, whichever is greater.



For the GAWR, see the Certification Label. For the maximum load of the tire, see the load limit at maximum cold tire inflation pressure mentioned on the sidewall of the tire. $(\rightarrow P. 371)$

n Tire types

1 Summer tires

Summer tires are high-speed performance tires best suited to highway driving under dry conditions. Since summer tires do not have the same traction performance as snow tires, summer tires are inadequate for driving on snow-covered or icy roads. For driving on snow-covered roads or icy roads, the use of snow tires is recommended. When installing snow tires, be sure to replace all four tires.

1 All season tires

All season tires are designed to provide better traction in snow and to be adequate for driving in most winter conditions as well as for use year-round. All season tires, however, do not have adequate traction performance compared with snow tires in heavy or loose snow. Also, all season tires fall short in acceleration and handling performance compared with summer tires in highway driving.

1 Snow tires

For driving on snow-covered roads or icy roads, we recommend using snow tires. If you need snow tires, select tires of the same size, construction and load capacity as the originally installed tires. Since your vehicle has radial tires as original equipment, make sure your snow tires also have radial construction. Do not install studded tires without first checking local regulations for possible restrictions. Snow tires should be installed on all wheels. $(\rightarrow P. 180)$

n Initializing the tire pressure warning system

Initialize the system with the tire inflation pressure adjusted to the specified level.

n If the tread on snow tires wears down below 0.16 in. (4 mm)

The effectiveness of the tires as snow tires is lost.

n If you press the tire pressure warning reset switch accidentally

If initialization is performed, adjust the tire inflation pressure to the specified level and initialize the tire pressure warning system again.

n When the initialization of the tire pressure warning system has failed

Initialization can be completed in a few minutes. However, in the following cases, the settings have not been recorded and the system will not operate properly. If repeated attempts to record tire inflation pressure settings are unsuccessful, have the vehicle inspected by your Lexus dealer.

- 1 When operating the tire pressure warning reset switch, the tire pressure warning light does not flash 3 times.
- 1 After carrying out the initialization procedure, the tire pressure warning light flashes for 1 minute then stays on after driving for 20 minutes.

n Tire pressure warning system certification

MODEL/FCC IDs:

Transmitter: PAXPMV107J Receiver: HYQ13BDK

For vehicles sold in the U.S.A.

NOTF:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC WARNING:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For vehicles sold in Canada

NOTE:

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

n When inspecting or replacing tires

Observe the following precautions to prevent accidents.

Failure to do so may cause damage to parts of the drive train, as well as dangerous handling characteristics, which may lead to an accident resulting in death or serious injury.

- 1 Do not mix tires of different makes, models or tread patterns. Also, do not mix tires of remarkably different treadwear.
- 1 Do not use tire sizes other than those recommended by Lexus.
- 1 Do not mix summer, all season and snow tires.
- 1 Do not use tires that have been used on another vehicle. Do not use tires if you do not know how they were used previously.

n To avoid burns

Do not touch the wheels or the area around the brakes immediately after the vehicle has been driven, as they will be extremely hot.

n When initializing the tire pressure warning system

Do not operate the tire pressure warning reset switch without first adjusting the tire inflation pressure to the specified level. Otherwise, the tire pressure warning light may not come on even if the tire inflation pressure is low, or it may come on when the tire inflation pressure is actually normal.

⚠ NOTICE

n Repairing or replacing tires, wheels, tire pressure warning valves, transmitters and tire valve caps

- 1 When removing or fitting the wheels, tires or the tire pressure warning valves and transmitters, contact your Lexus dealer as the tire pressure warning valves and transmitters may be damaged if not handled correctly.
- 1 When replacing tire valve caps, do not use tire valve caps other than those specified. The cap may become stuck.

n To avoid damage to the tire pressure warning valves and transmitters

When a tire is repaired with liquid sealants, the tire pressure warning valve and transmitter may not operate properly. If a liquid sealant is used, contact your Lexus dealer or other qualified service shop as soon as possible. Make sure to replace the tire pressure warning valve and transmitter when replacing the tire. $(\rightarrow P. 270)$

n Impacts from road surfaces

This vehicle is equipped with low profile tires, which may cause greater damage than usual to tires, wheels, body and suspension due to impacts from road surfaces. Therefore, pay attention to the following:

- 1 Be sure to use proper tire inflation pressure.
 If tires are under-inflated, tires and wheels may be damaged more severely.
- 1 Avoid potholes, uneven pavement, curbs and other road hazards.
 Failure to do so may lead to severe tire, wheel, body and suspension damage.

Even if there is no obvious damage, if the vehicle receives an impact from the road surface, have it inspected at your Lexus dealer.

n If tire inflation pressure of each tire becomes low while driving

Do not continue driving, or your tires and/or wheels may be ruined.

${\it n}\ \ {\it Tire}\ {\it precautions}\ {\it during}\ {\it cold}\ {\it weather}$

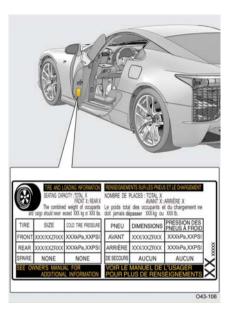
This vehicle is fitted with high-grip tires to enhance grip. These tires may be damaged if their temperature falls below $-31^{\circ}F$ ($-35^{\circ}C$). In extremely cold conditions, use snow tires on the vehicle and keep the high-grip tires in a warm place.

Even if there is no obvious damage, if the temperature of the high-grip tires falls below -31°F (-35°C), have them inspected at your Lexus dealer.

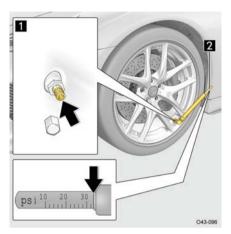
Tire inflation pressure

n Tire inflation pressure

The recommended cold tire inflation pressure and tire size is displayed on the tire and loading information label. $(\rightarrow P. 366)$



n Inspection and adjustment procedure



- 1 Tire valve
- Tire pressure gauge

- STEP 1 Remove the tire valve cap.
- STEP 2 Press the tip of the tire pressure gauge onto the tire valve.
- STEP 3 Read the pressure using the gauge gradations.
- STEP 4 If the tire inflation pressure is not at the recommended level, adjust the pressure.

 If you add too much air, press the center of the valve to deflate.
- STEP 5 After completing the tire inflation pressure measurement and adjustment, apply soapy water to the valve and check for leakage.
- STEP 6 Put the tire valve cap back on.

n Tire inflation pressure check interval

You should check tire inflation pressure every two weeks, or at least once a month.

n Effects of incorrect tire inflation pressure

Driving with incorrect tire inflation pressure may result in the following:

- 1 Reduced fuel efficiency
- 1 Reduced driving comfort and tire life
- 1 Reduced safety
- 1 Damage to the drive train

If a tire needs frequent inflating, have it checked by your Lexus dealer.

n Instructions for checking tire inflation pressure

When checking tire inflation pressure, observe the following:

- 1 Check only when the tires are cold. If your vehicle has been parked for at least 3 hours or has not been driven for more than 1 mile or 1.5 km, you will get an accurate cold tire inflation pressure reading.
- 1 Always use a tire pressure gauge.
 The appearance of the tire can be misleading. In addition, tire inflation pressure that is even just a few pounds off can affect ride quality and handling.
- 1 Do not reduce tire inflation pressure after driving. It is normal for tire inflation pressure to be higher after driving.
- 1 Never exceed the vehicle capacity weight.
 Passengers and luggage weight should be placed so that the vehicle is balanced.

${ m n}\ { m Tire}$ inflation pressure display

Tire inflation pressure can be checked on the meter's "Tire Pressure" display. $(\rightarrow P. 132)$

n Proper inflation is critical to save tire performance

Keep your tires properly inflated. Otherwise, the following conditions may occur and result in an accident causing death or serious injury:

- 1 Excessive wear
- 1 Uneven wear
- 1 Poor handling
- 1 Possibility of blowouts resulting from overheated tires
- 1 Poor sealing of the tire bead
- 1 Wheel deformation and/or tire separation
- 1 A greater possibility of tire damage from road hazards



∧ NOTICE

n When inspecting and adjusting tire inflation pressure

Be sure to put the tire valve caps back on.

Without the valve caps, dirt or moisture could get into the valve and cause air leakage, which could result in an accident. If the caps are lost, replace them as soon as possible.

Wheels

If a wheel is bent, cracked or heavily corroded, it should be replaced.

Otherwise, the tire may separate from the wheel or cause loss of handling control.

The wheel bolts used are exclusive to the LFA. When replacing the wheels or wheel bolts, consult your Lexus dealer.

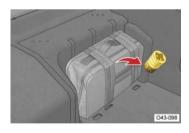
n Aluminum wheel precautions

- 1 Use only Lexus wheel bolts designed for use with your aluminum wheels.
- 1 When repairing or changing your tires, check that the wheel bolts are still tight after driving 1000 miles (1600 km).
- 1 Use only Lexus genuine balance weights or equivalent when balancing your wheels.

n When replacing wheels

The wheels of your Lexus are equipped with tire pressure warning valves and transmitters that allow the tire pressure warning system to provide advanced warning in the event of a loss in tire inflation pressure. Whenever wheels are replaced, the tire pressure warning valves and transmitters must be installed. $(\rightarrow P. 271)$

n Wheel bolt torque



An exclusive hub socket for the wheel bolts of the LFA is contained in the tool bag. A 1/2-inch (12.7 mm) drive extension bar and a torque wrench are required to tighten the bolts.

Tightening torque: 81 ft*lbf (110 N*m, 11.2 kgf*m)

CAUTION

n When replacing wheels

- 1 Do not use wheels that are a different size from those recommended in the Owner's Manual, as this may result in loss of handling control.
- 1 Never use an inner tube in a leaking wheel which is designed for a tubeless tire. Doing so may result in an accident, causing death or serious injury.

n Wheel holts

Observe the following precautions to reduce the risk of death or serious injury:

1 Do not over tighten.

grease from the wheel bolts.

- 1 Never use oil or grease on the wheel bolts. Oil and grease may cause the wheel bolts to be excessively tightened, leading to bolt or disc wheel damage. In addition, the oil or grease can cause the wheel bolts to loosen and the wheel may fall off, causing a serious accident. Remove any oil or
- 1 If there are any cracks or deformations in the wheel bolts, or if the surface treatment becomes worn, have the wheel bolts replaced at your Lexus dealer. Failure to follow these precautions could cause the wheel bolts to loosen and the tire to fall off, resulting in death or serious injury.
- 1 If the wheels are frequently removed and installed due to circuit driving etc., Lexus recommends periodic changing of the wheel bolts.



NOTICE

n Replacing tire pressure warning valves and transmitters

- 1 Because tire repair or replacement may affect the tire pressure warning valves and transmitters, make sure to have tires serviced by your Lexus dealer or other qualified service shop. In addition, make sure to purchase your tire pressure warning valves and transmitters at your Lexus dealer.
- 1 Ensure that only genuine Lexus wheels are used on your vehicle. Tire pressure warning valves and transmitters may not work properly with nonaenuine wheels.

Air conditioning filter

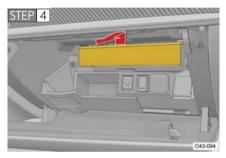
The air conditioning filter must be changed regularly to maintain air conditioning efficiency.

STEP 1 Set the air conditioning system to recirculated air mode. $(\rightarrow P. 190, 197)$

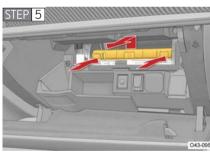
The air conditioning filter case cannot be removed with the system in the outside air mode.

STEP 2 Turn the ignition switch to the "LOCK" position.

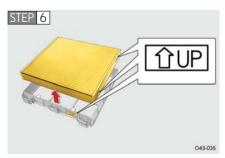
STEP 3 Open the glove box. $(\rightarrow P. 210)$



Remove the filter cover.



Remove the filter case.



Remove the air conditioning filter from the filter case and replace it with a new one.

The "TUP" marks shown on the filter and the filter case should be pointing up.

n Checking interval

Inspect and replace the air conditioning filter according to the maintenance schedule. In dusty areas or areas with heavy traffic flow, early replacement may be required. (For scheduled maintenance information, please refer to the "Owner's Manual Supplement" or "Scheduled Maintenance".)

${\rm n}\,$ If air flow from the vents decreases dramatically

The filter may be clogged. Check the filter and replace if necessary.

↑ NOTICE

n When using the air conditioning system

Make sure that a filter is always installed.

Using the air conditioning system without a filter may cause damage to the system.

Wireless remote control battery

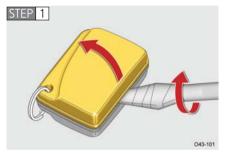
Replace the battery with a new one if it is depleted.

As the cover opening may be damaged easily, it is recommended that the battery be replaced by your Lexus dealer.

n You will need the following items:

- 1 Flathead screwdriver (tip width: approximately 0.32 in. [8.0 mm], tip thickness: approximately 0.04 in. [1.0 mm])
- 1 Lithium battery (CR2016)

n Replacing the battery

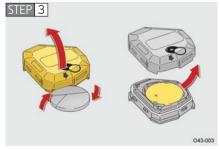


Remove the cover.

To prevent damage to the wireless remote control, cover the tip of the screwdriver with tape or a rag.



Remove the module.



Open the case cover using a coin protected with tape etc. and remove the depleted battery.

Insert a new battery with the "+" terminal facing up.

n Use a CR2016 lithium battery

- 1 Batteries can be purchased at your Lexus dealer, local electrical appliance shops or camera stores.
- 1 Replace only with the same or equivalent type recommended by the manufacturer.
- 1 Dispose of used batteries according to the local laws.

n If wireless remote control battery is depleted

The following symptoms may occur:

- 1 The wireless remote control will not function properly.
- 1 The operational range is reduced.

A CAUTION

n Removed battery and other parts

Keep away from children. These parts are small and if swallowed by a child, they can cause choking. Failure to do so could result in death or serious injury.

⚠ NOTICE

${ m n}\,$ For normal operation after replacing the battery

Observe the following precautions to prevent accidents.

- Always work with dry hands.
 Moisture may cause the battery to rust.
- 1 Do not touch or move any other components inside the remote control.
- 1 Do not bend either of the battery terminals.

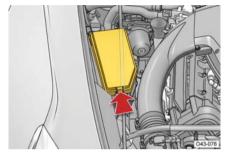
Checking and replacing fuses

If any of the electrical components do not operate, a fuse may have blown. If this happens, check and replace the fuses as necessary.

STEP 1 Turn the ignition switch to the "LOCK" position.

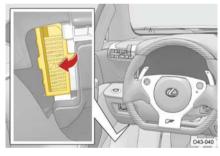
STEP 2 Open the fuse box lid.

Engine compartment



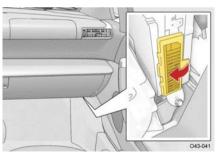
Push the tabs in and lift the lid off.

Driver's side instrument panel



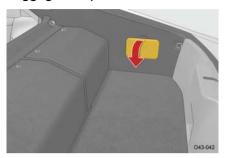
Remove the lid.

Passenger's side instrument panel



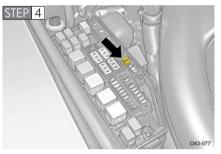
Remove the lid.

Luggage compartment



Remove the lid.

STEP 3 After a system failure, see "Fuse layout and amperage ratings" (→P. 290) for details about which fuse to check.

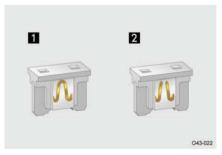


Remove the fuse with the pull-out tool.

The pull-out tool is in the fuse box of the engine compartment.

STEP 5 Check if the fuse has blown.

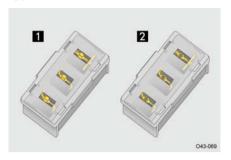
Type A



- 1 Normal fuse
- Blown fuse

Replace it with one of an appropriate amperage rating. The amperage rating can be found on the fuse box lid.

Type B

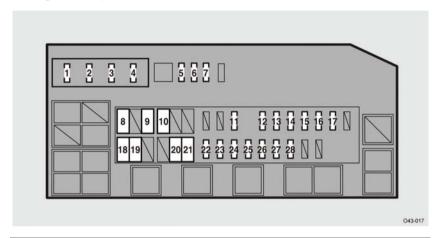


- 1 Normal fuse
- 2 Blown fuse

Contact your Lexus dealer.

Fuse layout and amperage ratings

n Engine compartment

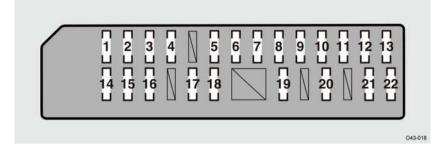


Fuse		Ampere	Circuit
1	INJ	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, noise filter
2	A/PMP HTR	20 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
3	EFI	20 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
4	A/F HTR	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
5	SPARE	30 A	Spare fuse
6	SPARE	20 A	Spare fuse
7	SPARE	10 A	Spare fuse

	Fuse	Ampere	Circuit
8	CDS FAN	40 A	Electric cooling fan
9	WIP	40 A	Windshield wiper
10	ABS MTR1	50 A	Electronically controlled brake system
11	ACC CUT	7.5 A	Starter system
12	H-LP RH	15 A	Headlight low/high beam (right-side)
13	H-LP LH	15 A	Headlight low/high beam (left-side)
14	E/G IG	5 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, ASG (Automated Sequential Gearbox)
15	IGN	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, SRS airbag system, electronically controlled brake system, electric power control system
16	EFI NO.2	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
17	EFI NO:1	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
18	P/I	50 A	INJ, A/PMP HTR, EFI, A/F HTR
19	ST	30 A	Starter system
20	MAIN	30 A	H-LP RH, H-LP LH
21	ABS MTR2	50 A	Electronically controlled brake system
22	F/PMP	30 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem

	Fuse	Ampere	Circuit
23	IG2	20 A	IGN, E/G IG, ECU-IG2, GAUGE
24	D/C CUT	20 A	MPX-B, DOME, P-MPX-B (for suppressing parasitic current)
25	HORN	15 A	Horn
26	ETCS-RH	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
27	ETCS-LH	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem
28	BIXENON	10 A	Headlight low/high beams

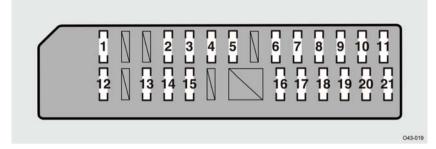
n Driver's side instrument panel



	Fuse	Ampere	Circuit
1	D-P/W	20 A	Power window (driver's side)
2	D-PWR SEAT	30 A	Power seat (driver's side)
3	DRLCK ALT	25 A	Main body ECU
4	RLY SIG	5 A	PANEL
5	OBD	10 A	On-board diagnosis
6	AM1	5 A	D-ACC, P-ACC, CDS FAN, WIP, WASH, MIR HTR, D-S/HTR, P-S/ HTR, D-IG1-1, D-IG1-2, D-IG1-3, D- IG1-4, P-IG1-1, P-IG1-2, P-IG1-3, P- IG1-4, RR-IG1
7	D-S/HTR	15 A	Seat heater (driver's side)
8	D-ACC	5 A	Main body ECU
9	R/MIR	10 A	Outside rear view mirrors
10	D-IG1-1	5 A	CAN gateway ECU
11	D-IG1-4	5 A	Seat heater (driver's side)
12	D-IG1-2	5 A	Main body ECU, rear hatch, EPS (Electric Power Steering), tire pres- sure warning system, charging system, turn signal lights, emergency flashers

	Fuse	Ampere	Circuit
13	D-IG1-3	5 A	Electronically controlled brake system, VDIM (Vehicle Dynamics Integrated Management)
14	ABS MAIN D2	10 A	Electronically controlled brake system
15	ABS MAIN D1	10 A	Electronically controlled brake system
16	STOP	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, electronically controlled brake system, ASG (Automated Sequential Gearbox), stop/tail lights, high mounted stoplight
17	DRLCK BAT	25 A	Main body ECU
18	HAZ	10 A	Turn signal lights, emergency flashers, gauges and meters
19	AM2	5 A	IGN, E/G IG, EFI NO.1, EFI NO.2, ECU-IG2, GAUGE, ASG-IG2
20	PANEL	5 A	Interior lights
21	DOME	5 A	Interior lights
22	MPX-B	10 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, main body ECU, rear hatch, power seat (driver's side), gauges and meters, VDIM (Vehicle Dynamics Integrated Management)

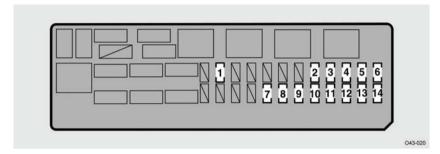
n Passenger's side instrument panel



	Fuse	Ampere	Circuit
1	P-PWR SEAT	30 A	Power seat (passenger's side)
2	P-P/W	20 A	Power window (passenger's side)
3	DISPLAY2	10 A	Navigation system
4	DISPLAY1	10 A	Remote Touch, navigation system, air conditioning system
5	A/C	10 A	Air conditioning system
6	P-ACC	5 A	Remote Touch, navigation system, air conditioning system, Lexus Enform
7	P-CIG	15 A	Power outlet
8	P-IG1-4	5 A	Seat heater (passenger's side)
9	P-IG1-1	5 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, air conditioning system
10	P-IG1-3	5 A	SRS airbag system, VDIM (Vehicle Dynamics Integrated Management)
11	P-IG1-2	5 A	Navigation system, air conditioning system
12	ABS MAIN P1	10 A	_
13	ABS MAIN P2	10 A	Electronically controlled brake system

	Fuse	Ampere	Circuit
14	PMG	5 A	Electric power control system
15	RAD NO.1	10 A	Audio system
16	MAYDAY	5 A	Lexus Enform
17	P-S/HTR	15 A	Seat heater (passenger's side)
18	MIR HTR	15 A	Outside rear view mirror defoggers
19	P-MPX-B	5 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, wireless remote door lock func- tion, power seat (passenger's side)
20	GAUGE	10 A	Gauges and meters
21	ECU-IG2	5 A	Multiport fuel injection system/ sequential multiport fuel injection sys- tem, ASG (Automated Sequential Gearbox), electric power control sys- tem, passenger occupant classifica- tion system, CAN gateway ECU, Lexus Enform

n Luggage compartment



	Fuse	Ampere	Circuit
1	VSSR	5 A	Electric power control system
2	RR-IG1	10 A	Active rear wing, electric cooling fans, electronic parking brake, electronically controlled brake system, seat belts, navigation system, rear window defogger, back-up lights
3	WASH	20 A	Windshield washer
4	F/OPN	10 A	Fuel filler door opener
5	TAIL	10 A	Parking lights, front side marker lights, rear side marker lights, license plate lights, stop/tail lights
6	RR FOG	7.5 A	_
7	AMP RH	30 A	Audio system
8	AMP LH	30 A	Audio system
9	OIL PMP	25 A	ASG (Automated Sequential Gearbox)
10	RR ECU-B	7.5 A	Active rear wing, electronic parking brake
11	ASG-IG2	7.5 A	ASG (Automated Sequential Gearbox)

	Fuse	Ampere	Circuit
12	ASG-B	7.5 A	ASG (Automated Sequential Gearbox)
13	BK/UP BAT	10 A	Electronically controlled brake system
14	ASG-SOL	10 A	ASG (Automated Sequential Gearbox)

n After a fuse is replaced

- 1 If the lights do not turn on even after the fuse has been replaced, a bulb may need replacement. Take your vehicle to your Lexus dealer for inspection.
- 1 If the replaced fuse blows again, have the vehicle inspected by your Lexus dealer.

n If there is an overload in the circuits

The fuses are designed to blow, protecting the wiring harness from damage.

A CAUTION

n To prevent system breakdowns and vehicle fire

Observe the following precautions.

Failing to do so may cause damage, and possibly a fire or injury.

- 1 Never use a fuse of a higher amperage rating than indicated, or use any other object in place of a fuse.
- 1 Always use a genuine Lexus fuse or equivalent. Never replace a fuse with a wire, even as a temporary fix. This can cause extensive damage or even fire.
- $1\,$ Do not modify the fuses or the fuse box.



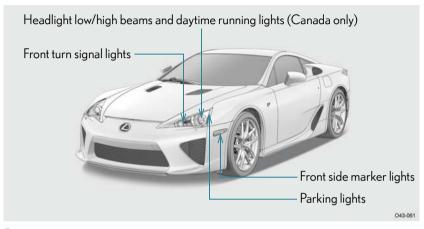
n Before replacing fuses

Have the cause of electrical overload determined and repaired by your Lexus dealer as soon as possible.

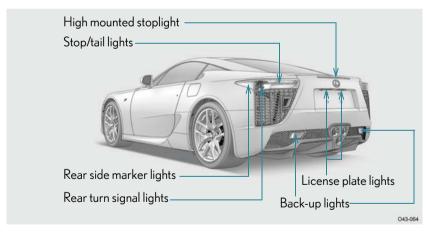
Light bulbs

Due to their positioning, the light bulbs may be difficult to replace. If a light bulb needs replacing, contact your Lexus dealer.

Front



Rear



n Light bulb types

 \rightarrow P. 367

n Discharge headlights

If voltage to the discharge bulbs is insufficient, the bulbs may not come on, or may go out temporarily. The discharge bulbs will come on when normal power is restored.

n LED light bulbs

The following lights consist of a number of LEDs. If any of the LEDs burn out, take your vehicle to your Lexus dealer to have the light replaced:

- 1 Parking lights
- 1 Stop/tail lights
- 1 High mounted stoplight

n Condensation build-up on the inside of the lens

Contact your Lexus dealer for more information in the following situations. Temporary condensation build-up on the inside of the headlight lens does not indicate a malfunction.

- 1 Large drops of water are built up on the inside of the lens.
- 1 Water has built up inside the headlight.

A CAUTION

n Handling lights and bulbs

- 1 Do not touch the lights or bulbs while they are on or immediately after they have been turned off. Doing so may result in burns.
- 1 Do not touch the glass portion of the light bulb with bare hands. Hold the bulb by the plastic or metal portion.
 - If the bulb is scratched or dropped it may blow out or crack.

n Discharge headlights

- 1 Do not touch the high-intensity discharge headlight's high voltage socket when the headlights are turned on.
 - An extremely high voltage of 30000 V will be discharged and could result in serious injury or death by electric shock.
- 1 Do not attempt to take apart or repair the discharge headlight bulbs, connectors, power supply circuits, or related components.
 - Doing so could result in electric shock and serious injury or death.